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Effect of Maize residues (stalks, cobs, leaves) and sawdust substrates on the growth and yield of oyster mushroom (Pleurotus spaidus).

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Abstract

The cultivation of oyster mushroom (Pleurotus spaidus) is considered as good environmental friendly approach for the bio-conservation of agricultural residues into food. Pleurotus spaidus is a good source of vitamins, amino acids, proteins and also contain less amount of fats cholesterol. P. spaidus is a heterotrophic organism and require a nutritious substrates for growth. In this study we evaluate the efficiency of maize residues (stalks, cobs, leaves) along with kikar tree (Vachellia nilotica) sawdust as substrate on the growth, yield and biological efficiency of P. spaidus. Five treatments were prepared in different proportions and data was recorded after spawn inoculation to harvesting of mushrooms using different parameters like; spawn running, pinhead's formation, number of pinhead's, development of fruiting bodies, yield and biological efficiency. Results of this study revealed that Treatment-T1 (sawdust 100%) significantly influenced with most of the growth parameters as compared with other treatments. Similarly, Treatment-T1 (sawdust 100%) produced maximum yield (263 g) and have minimum biological efficiency (52.6%). It was concluded that kikar tree sawdust is considered as potential substrate for the commercial cultivation of oyster mushroom (P. spaidus).

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